

### Transpiration Lab (Poster required)

Procedure 1: Calculating transpiration rate

Procedure 2: Measuring loss of plant mass through transpiration

Procedure 3: Floating Leaf Disk Assay for Investigating Photosynthesis

Procedure 4: Chromatography to resolve plant pigments

Analysis

You have 3 days to complete these procedures and analysis.

**Transpiration**, the loss of water by plants, occurs mainly through the stomata of the leaves. Water can move up a plant to the leaves by being pushed from the bottom or pulled from the top. Root pressure is not sufficient to push water all the way from the bottom to the top of a large plant such as a tree. It is more likely that water is pulled through the plant by the cohesion-tension mechanism.

As water leaves the intercellular space between the mesophyll cells in the leaf and evaporates through the stomata, it is replaced by water from within the cells themselves. Since water moves out of these cells freely but solutes do not, the solute concentration within the mesophyll cells increases and the water potential of the cells decreases. Water will then move into the mesophyll cells from surrounding cells with higher water potentials, for example, the cells of the xylem. Thus, as a result of transpiration, a gradient of differences in water potential from the xylem to the air outside the leaf is formed — water tends to be pulled upward.

The upward transpiration pull on the fluid within the xylem causes tension (negative pressure) to form in the xylem, pulling the walls of the xylem inward. Tension, since it is negative pressure, causes water potential in the xylem to decrease. The decrease in water potential, transmitted through the columns of fluid in the xylem, all the way to the roots, causes water to move from the soil across the cortex of the root and into the xylem of the stem.

The opening of stomata, which allows transpiration to occur, is also required for the entry of carbon dioxide used in photosynthesis. A balance must be maintained between the two processes, transpiration and photosynthesis, by regulating the opening of stomata.

**Purpose:** To determine how environmental conditions affect the rate of transpiration and to determine the transpiration rate of a plant.

**Materials for all 4 procedures:**

- |                          |                     |                                                                           |
|--------------------------|---------------------|---------------------------------------------------------------------------|
| • plants                 | • microscope        | • 60 mL 0.2% sodium bicarbonate solution with a drop of liquid soap added |
| • plastic bags           | • microscope slides | • hole puncher                                                            |
| • tape                   | • graph paper       | • syringe 10cc or larger                                                  |
| • chromatography paper   | • fan               |                                                                           |
| • chromatography solvent | • lamp              |                                                                           |
| • test tube with stopper | • water meters      |                                                                           |
| • glass                  | • plastic cup       |                                                                           |
|                          | • spinach           |                                                                           |

# Ap Biology Laboratory 9 Transpiration Answers

**Deborah T. Goldberg**



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